elecseed

Driving Future Energy

일렉시드에 오신 것을 환영합니다

elecseed.com.au elecseed.io

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Welcome

We are living in a significant time as nations and companies decarbonise their assets to meet aligned global targets and provide for a cleaner future.

Elecseed is a progressive Renewable Energy Developer and Consultancy providing innovation, technical eminence, funding, and multifaceted solutions to deal with the paradigm shift in how we generate, manage, and consume energy.

With offices in Seoul, Brisbane and Adelaide, Elecseed identifies and leads specific market needs, not only to propel our drive to a greener future but also satisfy the immediate economic needs and demands.

We have experience across the Asia Pacific in bringing the right partners to develop solutions across renewables including Photovoltaics, Wind, Hydrogen and Battery Storage technology, leveraging off strategic financial and engineering expertise.

Join us in our tenacious journey to a more sustainable and responsible world, driving the future of renewable energy solutions.

Our Services

Renewable Development and Co-Development

Developers / co-developers and brokerage of renewable energy assets such as wind and solar farms from conception to completion. Securing robust project finance & structure. Investment & funding with global partnerships and networks.

- Funding and Investment
- Feasibility Studies
- Development Applications
- Environmental Management
- Cultural Heritage Management
- Grid Connection Management
- Stakeholder Engagement
- Construction Management

Consultancy Services

Strategic commercial, engineering and construction consulting for renewable projects & stakeholders including companies and local governments, policy crafting, execution, networking, and future markets and research.

- Development Consulting and Brokerage
- Sustainability and Decarbonisation
- Energy Audits
- Energy Modelling and Analysis
- Feasibility Studies

Research & Development

Joint Research and Development with academia and the world's leading manufacturers, stimulating markets such as green hydrogen production, logistics, liquification, battery technologies and fuel cells. Strategic relationships both Korea & Australia.

- Research & Development
- Innovation Grant Funding

Renewable Engineering Design

Engineering design services for renewable assets including electrical engineering, civil engineering, communications, and integrated sustainable design (ISD) of buildings. Local knowledge and certification of engineering designs.

- Photovoltaics (Farms, Roof Top, Integrated)
- Hydrogen Infrastructure
- Battery Energy Storage Systems
- Electric Vehicle (EV) Infrastructure
- Wind Farms
- Building Services Engineering
- Civil Engineering
- Low and High Voltage Electrical Design
- Renewable Energy Master Planning
- Grid Connection Studies

Infrastructure Asset Management

Asset management assessments and audits, considering condition, financial forecasting, risk, compliance, replacement cost and strategy. Provision of Operation and Maintenance services as part of an integrated team for renewable assets.

- Condition Assessments
- Operation and Maintenance Programmes
- Lifecycle Predictions

Renewable Product Representation

Renewable product representation and market entry services, including supporting the development of distribution networks, technical knowledge and product sales and after sales support, leveraging off international connections.

- Product Approvals Management
- Fuel Cells
- Hydrogen Generators
- Battery Energy Storage Systems

Why choose Elecseed

Experience

Our team have extensive experience in energy related services and renewables, with degree educated staff who are passionate about the decarbonisation era we are living in. We believe in what we do.

Service

Our service is second-to-none. With our directors having over twenty-five years in the business, we understand the needs of our clients and believe that the relationship between us is the most fundamental aspect of our business. It's Imperative in fact, because life is about people. From start to end, we consult with our clients to ensure that the service provided meets and exceeds their expectation.

Flexible and agile

Elecseed is a privately owned flexible and agile business. We can make quick decisions, are not ridged in our business methods, welcome collaborative solutions to problems, whilst always strive to learn new ways.

Quality

We try endlessly to produce our work to the highest possible standard, not just meeting but exceeding expectations.

Real-World Investment

Project Portfolio

Prospecta Utilities

Elecseed are working across several community villages across the east coast of Australia providing engineering services design for high and low voltage underground electrical services, embedded networks, virtual power plants, solar integration and battery energy storage systems (BESS). These villages consist of over 500 properties and commercial facilities developed for the retirement living sector to a globally leading standard.

Columboola Solar Farm

Korea East West Power (EWP) one of Korea's largest power companies, along with its partners, initiated a large-scale Battery Feasibility Study to add to their existing Columboola Solar Farm in Central Queensland. The study was delivered by Elecseed and consider capacities, locations, infrastructure, constructability and market analysis amongst other things. The Columboola Solar Farm has been operational for several years and adding a Battery Energy Storage System (BESS) an opportunity to enhance grid stability, reduce energy costs through load shifting, whilst offer further reliability to power provision. Elecseed are working on several battery projects across Australia.

Hook Island

Hook Island is one of the Whitsunday Islands off the coast of Queensland. Elecseed were engaged to develop a renewable energy master plan to a proposed Eco-Resort on the island, inconsideration to clean and resilient energy needs. This study looked at multiple technologies such as Hydrogen, Photovoltaics, Battery Energy Storage Systems and Embedded networks.

Elecseed have extensive experience in the master planning of renewable energy, optimising different technologies and computing generation yield analysis. This has included work across Australia as well as on significant overseas developments.

Real-World Investment

Project Portfolio

University of Queensland

Elecseed were engaged to support the divestment of the Warwick Solar Farm on behalf of Knight Frank and the University of Queensland. This involved technical support on the farm operation, future capability, yield analysis and expansion. Warwick Solar Farm is a 64 MW facility 155 KM from Brisbane and one of Queensland earliest examples. Elecseed are working across a number of solar farm projects providing engineering design and technical solutions.

Not only can we offer design services, but solar farm development, grid connection management as well as strategic investment across Australia, supporting the growth and operation of solar farm assets.

KAIST Hydrogen Research Project

Elecseed are involved in a Research consortium in conjunction with the Korean Advanced Institute of Science and Technology (KAIST), Lattice Technology as well as others to undertake research into the Liquid Hydrogen supply chain.

The consortium's "Basic Design of the Liquid Hydrogen Import and Export Terminal" was selected as an international joint study in the field of hydrogen supply chain between Korea and Australia by the Energy Technology Evaluation Institute under the Ministry of Industry and Rural Resources and will receive a government grant of 21 billion won over the next 3 years.

The technology development project includes the installation of standardised export terminals in Australia and import terminals in South Korea respectively, and the transportation of hydrogen carriers back and forth between the two terminals. Lattice Technology Co., Ltd. has been developing a dedicated carrier for liquid hydrogen for some time.

Kumbarilla Renewable Energy Park (K-REP)

Kumbarilla Renewable Energy Park (K-REP) is a two-stage development located in Western Down Queensland, comprising a 100MW solar farm (stage 1) and a further 100MW solar farm and 80MW Hydrogen facility (stage 2).

The first stage, commencing construction in 2023, will provide 220GWh of green power to local industries in Queensland and a pilot scale green H2 production facilities with 2MW of electrolysis for on-site Research and Development, driving the future of renewable energies in cooperation with key industrial partners. The second stage is planned for mid-century and will be used for Hydrogen gas blending, export to the Korean market, as well as local Australian Hydrogen consumption such as mobility.

The project is a co-development between Elecseed and KOMIPO (Korea Midland Power) as part of the Korean Government decarbonisation strategy. The project has global investment partners such as

Industry Partners

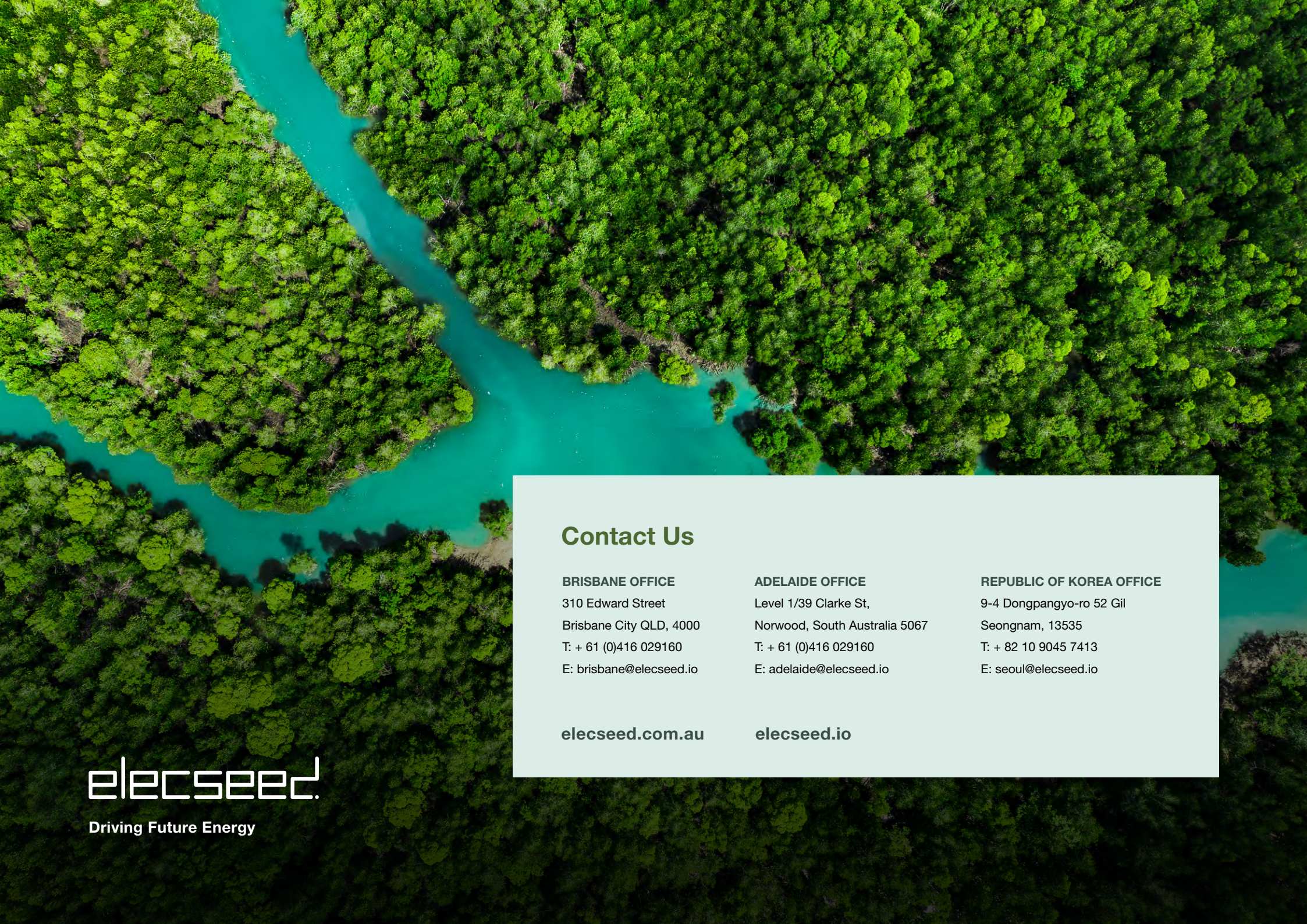
Elecseed are proud to partner with both local and international companies for co-development, support, and collaboration across a wide spectrum of services and expertise. We won't try to be everything, rather work closely with likeminded partners where we can collectively add strength to each other and achieve a positive outcome. This model of thinking allows an open-door approach with no fixed way of doing things, rather we welcome and enjoy working with others. Listed below are some of our partners whilst we invite you to join us in our tenacious journey to a more sustainable and responsible world, driving the future of renewable energy solutions.

KOMIPO
KOREA MIDLAND POWER CO.,LTD.

KAIST

SUNBO FAMILY

EWP



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